



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, April 8, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

HG ENERGY, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit approval for 3
47-043-02266-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 3
Farm Name: GRIFFITH, EPH
U.S. WELL NUMBER: 47-043-02266-00-00
Vertical Plugging
Date Issued: 4/8/2021

Promoting a healthy environment.

04/09/2021

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4704302266P

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

04/09/2021

- 1) Date September 30, 2020
- 2) Operator's
Well No. Ephraim Griffith 3
- 3) API Well No. 47-043 - 02266

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil X / Gas / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow X
- 5) Location: Elevation 715' Watershed Porter Fork
District Duval County Lincoln Quadrangle Griffithsville 7.5'
- 6) Well Operator HG Energy, LLC 7) Designated Agent Diane White
Address 5260 Dupont Road Address 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
- 8) Oil and Gas Inspector to be notified Name Terry Urban
Address P. O. Box 1207
Clendenin, WV 25045
- 9) Plugging Contractor Name To Be Determined Upon Approval of the Permit
Address

10) Work Order: The work order for the manner of plugging this well is as follows: ✓

Elev 715'

TD- 2206' Berea 2182'

Cement Plug No 1 2180'-2080', WOC, pump 6% gel to surface

Cement Plug No 2 1560'-1440', free point, cut and pull 5 3/16" & 6 5/8" casing ~ 700'

Cement Plug No 3 - 870' - 660' if necessary adjust depth for casing cut

Cement Plug No 4 - 310'- 135' (water at 260')

Cement Plug No 5 100' - surface

6% gel between cement plugs, erect and set monument with API # per DEP standards

Operator to Core all jets, production elevation, coal & Freshwater zone

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector



Date

11/23/20

Ephraim Griffith

Well No. 3 ✓

at Porter Fork of Straight Fork of Middle Fork of Mud River

Purchased From *Big Creek Sew. Co.*

Date Purchased

May 17, 1909

Cost per ft.

June 29, 1909

~~xxxxx~~ 1-15/100

Lawkey-Freeman Drilling Co. Date Abandoned

CASING RECORD

Size	Bottom Casing (Steel Line)	Put In Well (Tally Meas.)	Pulled (Tally Meas.)	Cemented
10"		30'	30'	Date
8"		230	230	Size Csg.
6-5/8		1490		Top "
5-3/16		1510	2-25-1922	Bot. "
<i>Red mic 11/26</i>				

PACKERS AND SHOES

Kind	Size	Depth Set	Date Set
Bottom Hole	6-5/8 x 8 1/2	1492	No data

TORPEDO RECORD

Date	No. Qts.	Size Shell	Top Shot	Bottom	Results
7-1-1909	90				
2-14-1911	160				

Record of Well No. 3 on 10/10/10 Impresso Farm. Acres 4704302266 A

Field, _____ District _____

Rig Commenced _____ 19____ Completed _____ 19____

Drilling Commenced May 17th 1909, Completed June 29th 1909

Cost per foot, 1.15 Contractor, Yarkey & Thomas Driller's Address, Yarkey, W.V.

Drillers' Names, W. D. Gillett and J. S. Westender

CONDUCTOR AND CASING USED IN DRILLING.

Conductor	12 inch	10 inch	8 1/2 inch	8 inch	7 1/2 inch	6 1/2 inch	6 inch	5 1/2 inch	5 3/8 inch	4 1/2 inch
		30		230		1490				

CONDUCTOR AND CASING LEFT IN WELL.

Conductor	12 inch	10 inch	8 1/2 inch	8 inch	7 1/2 inch	6 1/2 inch	6 inch	5 1/2 inch	5 3/8 inch	4 1/2 inch

OIL WELL

GAS WELL

When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Size of Packer	Depth Set	Tubing	1st Minute Pressure	Rock Pressure
<u>7/1/09</u>	<u>90#</u>	<u>2nd shot</u>	<u>7 1/2</u>	<u>16098</u>					

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Soil & Gravel Sand	-	30	30	
Sand	30	50	20	
Slate	50	130	80	
Sand	130	182	52	
Coal	182	185	3	
Slate	185	205	20	
Sand	205	225	20	3 barrels water at 260'
Slate	225	265	40	
Slate & Sand	265	725	460	
Slate	725	765	40	
Salt Sand	765	1325	560	hole full of water at 820'
Slate	1325	1365	40	
Red Rock	1365	1385	20	
Black Lime	1385	1415	30	
Slate	1415	1435	20	
Little Lime	1435	1480	45	
Pencil Iron	1480	1485	5	
Big Lime	1485	1670	185	
Iron Sand	1670	1740	70	
Slate	1740	1790	50	
Lime Shells	1790	1940	150	
Slate	1940	2162	222	
Black Slate	2162	2182	20	
Bona Sand	2182	2206	24	

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Environmental Protection

WW-4A
Revised 6-07

1) Date: September 30, 2020
2) Operator's Well Number
Ephraim Griffith No. 3
3) API Well No.: 47 - 043 - 02266

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Matthew & Jessica Pauley</u>	Name <u>NA</u>
Address <u>4786 Midway Road</u>	Address _____
<u>Yawkey, WV 25573</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NA</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name <u>NA</u>
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

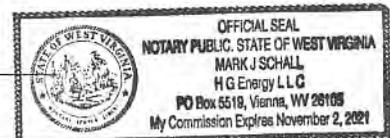
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator	<u>HG Energy, LLC</u>	RECEIVED
By:	<u>Diane White</u> <i>Diane White</i>	Office of Oil and Gas
Its:	<u>Agent</u>	DEC - 3 2020
Address	<u>5260 Dupont Road</u>	WV Department of
	<u>Parkersburg, WV 26101</u>	Environmental Protection
Telephone	<u>304-420-1119</u>	

Subscribed and sworn before me this 30th day of September 2020
[Signature] Notary Public
My Commission Expires 11/2/2021



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

04/09/2021

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7019 2280 0000 1287 1525

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To Matthew & Jessica Pauley Street and Apt. No., or PO Box No. 4786 Midway Road City, State, ZIP+4® Yawkey WV 25573	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

OCT - 1 2020
 Postmark Here
 EG3-PA



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04/09/2021

47043022669

WW-9
(5/16)

API Number 47 - 043 - 02266
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy, LLC OP Code 494497948

Watershed (HUC 10) Hayzlett Fork Quadrangle Griffithsville 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fluids encountered while plugging the well

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 20 mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Any well effluent will be contained in tanks until disposed of off site at an approved disposal site.)

TU 1123-20

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? To be determined upon approval of the plugging permit

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane White
Company Official (Typed Name) Diane White
Company Official Title Agent

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Environmental Protection

Subscribed and sworn before me this 30th day of September, 2020

Chadler

Notary Public

My commission expires 11/2/2021



04/09/2021

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 0.2 Acres Prevegetation pH _____

Lime _____ 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10/20/20

Fertilizer amount _____ 500 lbs/acre

Mulch Straw _____ 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

- Sediment Control Will Be In Place At All Times -

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

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WV Department of
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Title: _____

Inspector Oulegas

Date: _____

11-23-20

Field Reviewed? _____

() Yes

() No

N/A

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WW-9- GPP
Rev. 5/16

Page 1 of 2
API Number 47 - 043 - 02266
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN

Operator Name: HG Energy, LLC
Watershed (HUC 10): Porter Fork Quad: Griffithsville 7.5'
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

04/09/2021

N/A

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: Diane White

Date: 9/30/2020

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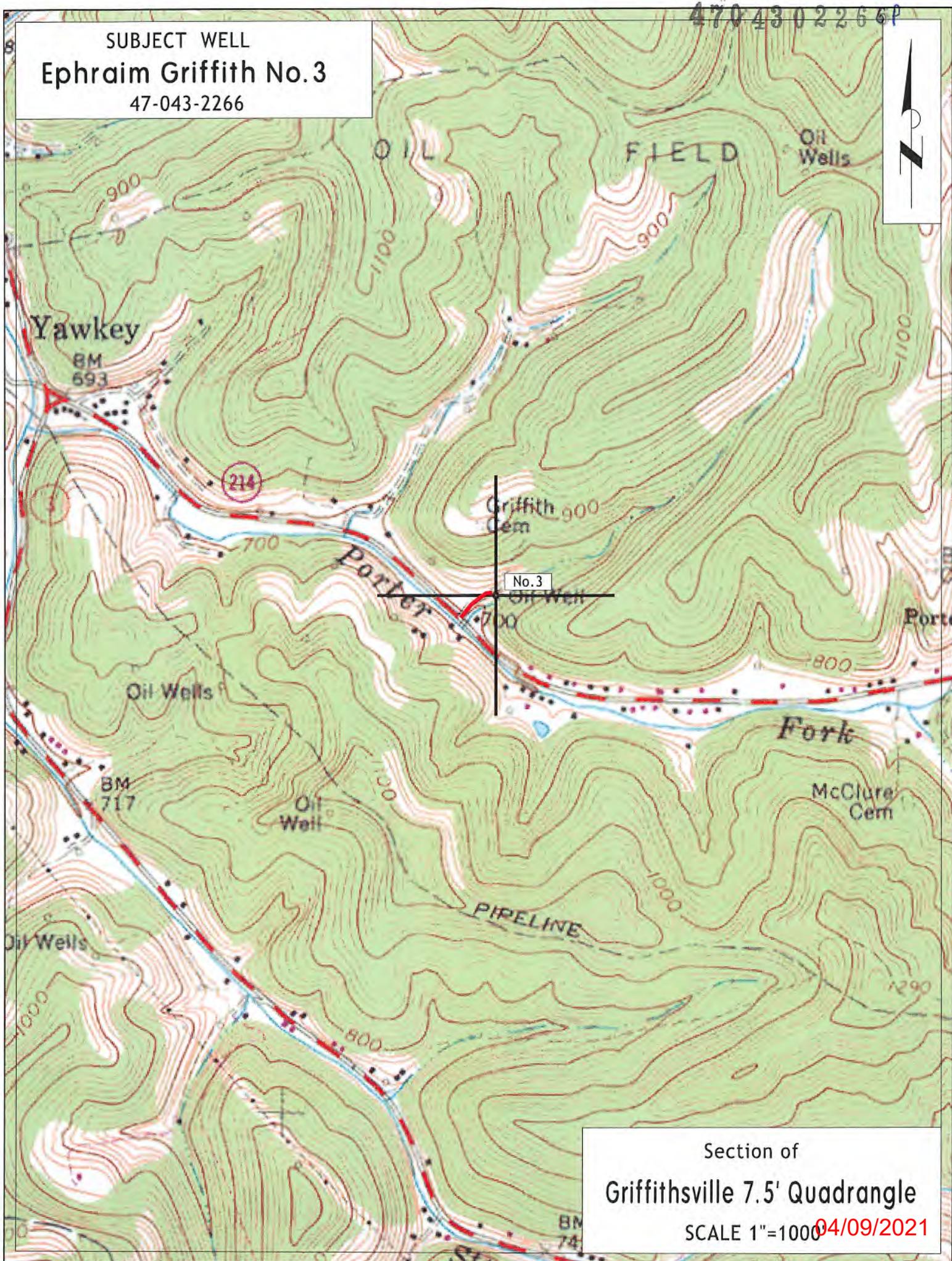
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04/09/2021

4704302266P

SUBJECT WELL
Ephraim Griffith No. 3
47-043-2266



Section of
Griffithville 7.5' Quadrangle

SCALE 1"=1000' 04/09/2021

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 043 - 02266 WELL NO: 3

FARM NAME: Ephraim Griffith

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Griffithsville 7.5'

SURFACE OWNER: Matthew & Jessica Pauley

ROYALTY OWNER: HG Energy, LLC et al.

UTM GPS NORTHING: 4,230,687

UTM GPS EASTING: 416,652 GPS ELEVATION: ~~219 m.~~ 715 ft.

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Diane White Diane C. White
Signature

September 25, 2020
Date

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Designated Agent Title
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WV Department of Environmental Protection



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
(304) 420-1100 - Office
(304) 863-3172 - Fax

September 30, 2020

Jeff McLaughlin
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: Ephraim Griffith No. 3 - (47-043-02266)
Duval District, Lincoln County
West Virginia

Dear Mr. McLaughlin:

Enclosed are Forms WW-4(A), WW-4(B), WW-9, and WW-7, topo map, well record and a copy of certified mailing receipt to plug and abandon the above-captioned well.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Matthew and Jessica Pauley - Certified
Terry Urban - Inspector

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